

FILEID**INPUT

M 15

	NN	NN	PPPPPPPP	UU	UU	TTTTTTTT
	NN	NN	PPPPPPPP	UU	UU	TTTTTTTT
II	NN	NN	PP	PP	UU	UU
II	NN	NN	PP	PP	UU	UU
II	NNNN	NN	PP	PP	UU	UU
II	NNNN	NN	PP	PP	UU	UU
II	NN	NN	PPPPPPPP	UU	UU	TT
II	NN	NN	PPPPPPPP	UU	UU	TT
II	NN	NNNN	PP	UU	UU	TT
II	NN	NNNN	PP	UU	UU	TT
II	NN	NN	PP	UU	UU	TT
II	NN	NN	PP	UU	UU	TT
II	NN	NN	PP	UUUUUUUUUU	UU	TT
II	NN	NN	PP	UUUUUUUUUU	UU	TT

MAY
VO4

(2)	73	DECLARATIONS
(3)	102	MAC\$GETCHR GET NEXT CHARACTER FROM INPUT STREAM
(4)	222	MAC\$GETLIN GET NEXT INPUT SOURCE LINE
(5)	324	OPEN NEXT INPUT SOURCE FILE
(6)	359	STAT4 SWITCH INPUT TO MACRO TEXT
(7)	391	MEXIT MACRO EXIT ROUTINE
(7)	403	MAC\$POP INPUT POP INPUT CONTEXT UP A LEVEL
(8)	447	STATEMENTS END-OF-LINE CLEANUP

B C D E F G H I J K L M N B C D E F G H I J K L M N B C D E F G H I J K L M N B C D E F G H I

0000 1 .TITLE MAC\$INPUT GET NEXT CHARACTER
0000 2 .IDENT 'V04-000'
0000 3 :*****
0000 4 :
0000 5 :*****
0000 6 :*
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0000 27 :
0000 28 :
0000 29 :++
0000 30 : FACILITY: VAX MACRO ASSEMBLER OBJECT LIBRARY
0000 31 :
0000 32 : ABSTRACT:
0000 33 :
0000 34 : The VAX-11 MACRO assembler translates MACRO-32 source code into object
0000 35 : modules for input to the VAX-11 LINKER.
0000 36 :
0000 37 : ENVIRONMENT: USER MODE
0000 38 :
0000 39 : AUTHOR: Benn Schreiber, CREATION DATE: 21-AUG-78
0000 40 :
0000 41 : MODIFIED BY:
0000 42 :
0000 43 : V03.01 MTR0011 Mike Rhodes 18-Mar-1982
0000 44 : Add logic to routine MAC\$GETLIN to trap non-RMSS EOF errors
0000 45 : and non-SUMS_xxx errors. This occurs when an illegal record
0000 46 : is encountered by RMS and it does not count as a SUM error,
0000 47 : which leaves us in an infinite loop trying to read the next line.
0000 48 : Fixes QAR #691.
0000 49 :
0000 50 : V03.00 MTR0006 Mike Rhodes 15-Mar-1982
0000 51 : Modify MAC\$GETCHR to allow ALL characters to be passed
0000 52 : when the FLGS\$V_DLIMSTR flag is set. The characters allowed
0000 53 : to be passed include the semicolon (which was already passed)
0000 54 : and the hyphen, which at times was incorrectly treated as a
0000 55 : line continuation character. Fixes SPR #11-42904.
0000 56 :
0000 57 : V01.10 RN0023 R. Newland 3-Nov-1979

GET NEXT CHARACTER

C 16

16-SEP-1984 02:20:18 VAX/VMS Macro V04-00
5-SEP-1984 01:48:32 [MACRO.SRC]INPUT.MAR;1Page 2
(1)

0000	58	:	New message codes to get error messages from system message file.		
0000	59	:			
0000	60	:			
0000	61	:	V01.09	RN0010	R. Newland 5-Sep-1979
0000	62	:		Mulitpage MXB blocks	
0000	63	:			
0000	64	:	V01.08	RN0005	R. Newland 27-Aug-1979
0000	65	:		Remove .ALIGN LONG statements	
0000	66	:			
0000	67	:	V01.07	RN0002	R. Newland 01-Feb-1979
0000	68	:		Changes for Source Update Merge, Get input lines	
0000	69	:		from SUM\$LINE.	
0000	70	:			
0000	71	--			

0000	73	.SBTTL DECLARATIONS	
0000	74	:	
0000	75	: INCLUDE FILES:	
0000	76	:	
0000	77		
0000	78	:	
0000	79	: MACROS:	
0000	80	:	
0000	81	\$RABDEF	: DEFINE RAB OFFSETS
0000	82	\$MAC_GENVALDEF	: VAX-11 MACRO GENERAL SYMBOLS
0000	83	\$MAC_CTLFLGDEF	: CONTROL FLAGS
0000	84	\$MAC_INTCODDEF	: INTERMEDIATE CODE FILE SYMBOLS
0000	85	\$MAC_INPBLKDEF	: DEFINE INPUT BLOCK OFFSETS
003C	86	\$MAC_SYMBLKDEF	: DEFINE SYMBOL BLOCK OFFSETS
0000	87	\$MAC_MNBDEF	: DEFINE MNB OFFSETS
0000	88	\$MACMSGDEF	: Define message codes
0000	89	\$STSDEF	: STATUS BITS
0000	90	DEFSUMCBL	: Define SUM control block symbols
0000	91	:	
0000	92		
0000	93	:	
0000	94	: EQUATED SYMBOLS:	
0000	95	:	
0000	96		
0000	97	:	
0000	98	: OWN STORAGE:	
0000	99	:	
0000	100		

0000 102 .SBTTL MAC\$GETCHR GET NEXT CHARACTER FROM INPUT STREAM
 0000 103 :++
 0000 104 : FUNCTIONAL DESCRIPTION:
 0000 105 :
 0000 106 : THIS ROUTINE IS CALLED WHENEVER A NEW CHARACTER IS NEEDED.
 0000 107 : IT PERFORMS ALL THE HOUSEKEEPING FOR ENDS OF LINES, OUTPUTS
 0000 108 : COMMANDS TO THE INT. FILE FOR NEW LINES, AND HANDLES CONTINUATION
 0000 109 : LINES.
 0000 110 :
 0000 111 : CALLING SEQUENCE:
 0000 112 :
 0000 113 : JSB MAC\$GETCHR
 0000 114 :
 0000 115 : INPUT PARAMETERS:
 0000 116 :
 0000 117 : R10 LAST CHARACTER READ
 0000 118 : R11 POINTS TO FLAGS (MAC\$GL FLAGS)
 0000 119 : IF FLGSM_ALLCHR IS SET THEN SEMICOLONS WILL BE PASSED
 0000 120 : BACK. IF THE FLAG IS CLEAR, SEMICOLONS AND
 0000 121 : EVERYTHING FOLLOWING WILL BE IGNORED.
 0000 122 :
 0000 123 : IMPLICIT INPUTS:
 0000 124 :
 0000 125 : NONE
 0000 126 :
 0000 127 : OUTPUT PARAMETERS:
 0000 128 :
 0000 129 : R10 NEXT CHARACTER
 0000 130 :
 0000 131 : IMPLICIT OUTPUTS:
 0000 132 :
 0000 133 : NONE
 0000 134 :
 0000 135 : COMPLETION CODES:
 0000 136 :
 0000 137 : NONE
 0000 138 :
 0000 139 : SIDE EFFECTS:
 0000 140 :
 0000 141 : NONE
 0000 142 :
 0000 143 :--
 0000 144 :
 0000 145 :
 0000 146 :
 00000000 147 .PSECT MAC\$RO_CODE_P15,NOWRT,GBL,LONG
 0000 148 :
 0000 149 .ENABL LSB
 0000 150 :
 0000 151 MAC\$GETCHR::
 58 0000 58 DD 0000 152 PUSHL R8 :SAVE R8
 0D CF 9E 0002 153 10\$: MOVAB W^MAC\$GL_LINEPT,R8 :POINT TO MAC\$GL LINEPT
 5A 5A 91 0007 154 20\$: CMPB R10,#CR :TIME TO READ NEW LINE?
 1F 12 000A 155 BNEQ 30\$:IF NEQ NO
 50 5A 20 000C 156 25\$: MOVZBL #BLNK,R10 :YES--PREVENT LOOPING ON CR
 0000 CF DD 000F 157 MOVL W^MAC\$GL_INPUTP_R0 :ADDRESS INPUT BLOCK
 6B 08 C8 0014 158 BISL2 #FLGSM_CONT,(R11) :ALLOW CONTINUATION LINES

E9 6B 08 B0 16 0017 159 JSB @INPSL_GETL(R0) ;CALL INPUT ROUTINE TO READ NEXT LINE
 E0 001A 160 BBS #FLGSV_MACTXT,(R11),20\$;BRANCH IF READING MACRO TEXT
 001E 161 \$INTOUT_WD INT\$_NEWL,- ;YES--SIGNAL NEW LINE FOR PASS2
 001E 162 <W^MACSGL_LINENUM>
 5A 00 DC 11 0029 163 BRB 20\$;CONTINUE
 6B 9A 002B 164 30\$: MOVZBL @R8),R10 ;GET NEXT CHARACTER
 68 D6 002F 165 INCL (R8) ;POINT TO NEXT CHARACTER
 5A D5 0031 166 TSTL R10 ;WAS CHARACTER A NULL?
 F6 13 0033 167 BEQL 30\$;IF EQL YES--GET NEXT CHARACTER
 03 6B 2F E1 0035 168 BBC #FLGSV_DLIMSTR,(R11),35\$;(GOD ONLY KNOWS WHERE NULLS COME FROM!)
 007B 31 0039 170 BRW 150\$;ALLOW SEMICOLONS AND HYPHENS?
 0E 6B 1A E0 003C 171 35\$: BBS #FLGSV_SPLALL,(R11),40\$;YES -- BYPASS OTHER TESTS.
 0040 172 ;BRANCH IF SHOULD NOT EVEN CONSIDER
 3B 5A 91 0040 173 CMPB R10,#SEMI ;SEMI-COLONS
 09 12 0043 174 BNEQ 40\$;IS CHARACTER A SEMI-COLON?
 06 6B E8 0045 175 BLBS (R11),40\$;IF NEQ NO
 0048 176 ;YES--AND ARE WE PASSING ALL CHARS.? ;(ALLCHR IS LOW BIT!!)
 5A 0D 9A 0048 177 MOVZBL #CR,R10 ;NO--CALL IT EOL
 0069 31 004B 178 BRW 150\$;TAKE THE QUICK EXIT
 2D 5A 91 004E 179 40\$: CMPB R10,#HYPHEN ;LINE CONTINUATION?
 64 12 0051 180 BNEQ 150\$;IF NEQ NO
 60 6B 03 E1 0053 181 BBC #FLGSV_CONT,(R11),150\$;YES--CONTINUATIONS ALLOWED?
 5A DD 0057 182 PUSHL R10 ;YES--SAVE CURRENT STATE
 68 DD 0059 183 PUSHL (R8) ;SAVE MACSGL LINEPT
 7E 6B FFFFFFFE 8F CB 005B 184 BICL3 #^C<FLGSM_ALLCHR>,(R11),-(SP) ;SAVE ALLCHR STATE
 6B 09 CA 0063 185 BICL2 #FLGSM_CONT!FLGSM_ALLCHR,(R11) ;DON'T RECURSE ON LINES THAT HAVE
 5A 20 9A 0066 186 MOVZBL #BLNK,R10 ;ALL HYPHENS.
 20 5A 91 0069 187 60\$: CMPB R10,#BLNK ;IS CHARACTER A BLANK?
 05 13 006C 188 BEQL 70\$;IF EQL YES
 09 5A 91 006E 189 CMPB R10,#TAB ;NO--IS IT A TAB?
 05 12 0071 190 BNEQ 80\$;IF NEQ NO
 FF8A 30 0073 191 70\$: BSBW MAC\$GETCHR ;YES--SKIP OVER SPACES AND TABS
 F1 11 0076 192 BRB 60\$;FIND NON-BLANK,NON-TAB CHARACTER
 0D 5A 91 0078 193 80\$: CMPB R10,#CR ;IS THIS EOL?
 2E 12 007B 194 BNEQ 130\$;IF NEQ NO
 6B 8E C8 007D 195 BISL2 (SP)+,(R11) ;YES--RESTORE ALLCHR FLAG
 5E 08 C0 0080 196 ADDL2 #2*4,SP ;AND SAVED CONTEXT NOT NEEDED
 FF7A 30 0083 197 BSBW MAC\$GETCHR ;READ NEXT LINE
 04 6B 0D E1 0086 198 BBC #FLGSV_OPRND,(R11),90\$;BRANCH IF NOT IN OPERAND FIELD
 06 6B 14 E3 008A 199 BBCS #FLGSV_CHKLPND,(R11),100\$;SET CHKL PENDING AND BRANCH IF NONE PENDI
 008E 200 90\$: \$INTOUT_X INT\$_CHKL ;ENSURE ALIGNMENT OF CONTINUED LINES
 0D 5A 91 0094 201 100\$: CMPB R10,#CR ;NULL LINE?
 0D 13 0097 202 BEQL 120\$;IF EQL YES
 0C 5A 91 0099 203 CMPB R10,#FF ;STILL LOOKING FOR NULL LINES
 05 13 009C 204 BEQL 110\$;
 3B 5A 91 009E 205 CMPB R10,#SEMI ;
 11 12 00A1 206 BNEQ 140\$;
 5A 0D 9A 00A3 207 110\$: MOVZBL #CR,R10 ;TREAT AS EOL IF NULL
 FF57 30 00A6 208 120\$: BSBW MAC\$GETCHR ;READ NEXT LINE
 E9 11 00A9 209 BRB 100\$;FIND NON-NUL LINE
 00AB 210 :
 00AB 211 : NOT REALLY A CONTINUED LINE
 00AB 212 :
 6B 8E C8 00AB 213 130\$: BISL2 (SP)+,(R11) ;RESTORE ALLCHR FLAG
 68 8ED0 00AE 214 POPL (R8) ;RESTORE MACSGL LINEPT
 5A 8ED0 00B1 215 POPL R10 ;RESTORE CHARACTER

GET NEXT CHARACTER

G 16

MAC\$GETCHR GET NEXT CHARACTER FROM INPUT

16-SEP-1984 02:20:18 VAX/VMS Macro V04-00

5-SEP-1984 01:48:32 [MACRO.SRC]INPUT.MAR;1

Page 6
(3)

6B	08	C8	00B4	216	140\$:	BISL2	#FLGSM_CONT,(R11)	:ALLOW CONTINUATIONS AGAIN
58	8ED0	00B7	217	150\$:	POPL	R8	:RESTORE R8	
05	00BA	218			RSB		:RETURN WITH CHARACTER IN R10	
00BB	219							
00BB	220				.DSABL	LSB		

008B 222 .SBTTL MAC\$GETLIN GET NEXT INPUT SOURCE LINE
 008B 223
 008B 224 :++
 008B 225 : THIS ROUTINE IS CALLED TO GET THE NEXT LINE OF THE CURRENT
 008B 226 : INPUT FILE AND PLACE IT IN MAC\$AB_LINEBF.
 008B 227 :--
 008B 228
 008B 229 .ENABL LSB
 008B 230
 008B 231 MAC\$GETLIN::
 50 0000'CF 9E 008B 232 MOVAB W\$MAC\$INPUT_RAB, R0 ;POINT TO THE RAB
 0000'CF DF 00C0 233 PUSHAL W\$MAC\$GT_SCB ;Control block address
 00000000'GF 01 FB 00C4 234 CALLS #1, G\$SUM\$LINE ;Get next input line
 6D 50 E8 00CB 235 BLBS R0, 40\$;If LBS then good read
 00000000'8F 50 D1 00CE 236 CMPL R0, #RMSS\$_EOF ;Was error end-of-file?
 27 13 00D5 237 BEQL 8\$;Yes if EQL, try next file
 51 50 OC 10 EF 00D7 238 EXTZV #STSSV_FAC_NO, #STSSS_FAC_NO, R0, R1 ;Get facility no
 0084 8F 51 B1 00DC 239 CMPW R1, #<S0MS_NORMAL@-16\$;SUM error?
 51 50 0C 13 00E1 240 BEQL 2\$;Yes if EQL
 51 50 FFFFFFF8 8F CB 00E3 241 BICL3 #^CSTSSM_SEVERITY, R0, R1 ;Copy and check the severity
 CE 13 00EB 242 BEQL MAC\$GETLIN ;WARNING, try again
 OF 11 00ED 243 BRB 8\$;ERROR or FATAL, try next file
 05 6B 0E E0 00EF 244 2\$: BBS #FLGSV_P2, (R11), 5\$;Return line if Pass 2
 00AF 30 00F3 245 BSBW SUM_ERROR ;Generate intermediate code if Pass 1
 C3 11 00F6 246 BRB MAC\$GETLIN
 0000'CF 3D 11 00FC 247 5\$: DECL W\$MAC\$GL_LINENUM ;Don't increment line number
 3D 11 00FE 248 BRB 40\$
 0000'CF 30 00FE 249 8\$: BSBW MAC\$NXTINPFIL ;ELSE TRY TO OPEN NEXT FILE
 0000'CF 01 9A 0101 250 MOVZBL #1, W\$MAC\$GL_SRCPAG ;RESET PAGE COUNT TO ONE
 0000'CF B2 50 E8 0106 251 BLBS R0, MAC\$GETLIN ;IF THERE IS ANOTHER FILE, GO READ IT
 0000'CF 444E452E 8F D0 0109 252 10\$: MOVL #^A/.END/ W\$MAC\$AB_LINEBF ;OOPS--NO FILE--FAKE A '.END'
 0022'CF 04 98 0112 253 MOVZBW #4, W\$MAC\$INPUT_RAB+RABSW_RSZ ;WITH A SIZE OF 4 BYTES
 0000'CF D5 0117 254 TSTL W\$MAC\$GL_IF_LEVEL ;IN UNFINISHED CONDITIONAL?
 0C 15 011B 255 BLEQ 30\$;IF LEQ NO
 0004'CF 43 8F 90 011D 256 MOVB #^A/C/, W\$MAC\$AB_LINEBF+4 ;YES--MAKE .END INTO .ENDC
 0022'CF B6 0123 257 INCW W\$MAC\$INPUT_RAB+RABSW_RSZ ;COUNT THE CHARACTER
 12 11 0127 258 BRB 40\$;CONTINUE
 0E 6B 0E E0 0129 259 BBS #FLGSV_P2, (R11), 40\$;ONLY MESSAGE ON PASS 1
 012D 260 :**** SINTOUT_X INT\$_FNWL ;PRINT CONTENTS OF PREVIOUS LINE
 012D 261 30\$: SINTOUT_LW INT\$_WRN - ;TELL OF MISSING END STATEMENT
 012D 262 :<#MAC\$_MISSINGEND, #0>
 0022'CF 3C 013B 263 40\$: MOVZWL W\$MAC\$INPUT_RAB+RABSW_RSZ, - ;SAVE LENGTH OF LINE
 50 013F 264 RO
 0000'CF 50 D0 0140 265 40\$: MOVL R0, W\$MAC\$GL_LINELN ;GET ADDRESS OF LINE BUFFER
 50 0000'CF 9E 0145 266 50\$: MOVAB W\$MAC\$AB_LINEBF, R0 ;SET UP LINE POINTER
 0000'CF 50 D0 014A 267 MOVL R0, W\$MAC\$GL_LINEPT ;RESET ERROR POINTER TO LINE START
 0000'CF 50 D0 014F 268 MOVL R0, W\$MAC\$GL_ERRPTX ;NEW SOURCE PAGE?
 OC 60 91 0154 269 CMPB (R0), #FF ;IF NEQ NO
 04 12 0157 270 BNEQ 60\$;YES--COUNT NEW PAGE
 0000'CF D6 0159 271 INCL W\$MAC\$GL_SRCPAG ;FIGURE ADDRESS OF LAST CHARACTER
 50 0000'CF C0 015D 272 ADDL2 W\$MAC\$GL_LINELN, R0 ;STORE CR FOR END OF LINE
 60 0D 90 0162 273 MOVB #CR, (R0) ;COUNT THIS LINE
 0000'CF D6 0165 274 60\$: INCL W\$MAC\$GL_LINEUM ;BRANCH IF THIS IS PASS 2
 04 6B 0E E0 0169 275 BBS #FLGSV_P2, (R11), 80\$;NO--COUNT LINE READ IN PASS 1
 0000'CF D6 016D 276 INCL W\$MAC\$GL_SRC_LCNT

0246	359	.SBTTL STAT4	SWITCH INPUT TO MACRO TEXT
0246	360		
0246	361	:++	
0246	362	FUNCTIONAL DESCRIPTION:	
0246	363		
0246	364	THIS SEMANTIC ROUTINE SWITCHES THE POINTER TO THE CURRENT	
0246	365	INPUT BLOCK TO POINT TO THE MACRO BEING EXPANDED. FIRST THE	
0246	366	REAL MACRO ARGUMENTS ARE SCANNED AND AN INPUT BLOCK IS CREATED.	
0246	367	THEN MAC\$GETCHR WILL READ CHARACTERS FROM THE MACRO TEXT	
0246	368	EXPANDER MAC\$GET_MAC_LIN.	
0246	369		
0246	370	:-:	
0246	371		
	00000000	372	.PSECT MAC\$RO_CODE_P1,NOWRT,GBL,LONG
	0000	373	STAT4:: ;STATEMENT = MACTXT
OE 0005'CF	E8 0000	374	BLBS W\$LISTSG_MACROCALL+SYMSL VAL,10\$;BRANCH IF LISTING MACRO CALLS
56 0000'CF47	D0 0013	375	SINTOUT LW INT\$-SETLONG,<#0,\$MAC\$GL LIST IT> ;NO--SEND FLAG TO PASS 2
55 00'8F	9A 0019	376	10\$:
FFE0'	30 001D	377	MOVL W\$MAC\$AL VALSTACK[R7],R6 ;GET PTR TO MACRO MNB
05 A6	D5 0020	378	MOVZBL #CRFSK_REF,RS ;THIS IS A REFERENCE
1D	13 0023	379	BSBW MAC\$CREF MACRO ;CROSS REFERENCE IF CREFING
0000'CF 56	D0 0025	380	TSTL MNBSL_TXTP(R6) ;IS THERE ANY TEXT
0000'CF 18 A6	D0 002A	381	BEQL 20\$;IF EQL NO--TAKE THE QUICK OUT
FFCD'	30 0030	382	MOVL R6,W\$MAC\$GL_MACPTR ;SAVE POINTER TO MACRO MNB
0000'CF 0000'CF	D0 0033	383	MOVL MNBSL_ARGP(R6),W\$MAC\$GL_KEYMAC ;SET PTR TO KEYWORD ARGS (IF ANY)
00 6B 10	E3 003E	384	BSBW MAC\$GET_ARGS ;SCAN REAL MACRO ARGS
5A 0D	9A 0042	385	CLRL W\$MAC\$GL_KEYMAC ;CLEAR POINTER TO KEYWORD ARGS
05	0045	386	MOVL W\$MAC\$GL_BLKPTR,W\$MAC\$GL_INPUTP ;POINT TO NEW INPUT BLOCK
05 30\$:	387	BBCS #FLGSV MACTXT,(R11),20\$;FLAG READING MACRO TEXT	
	388	MOVZBL #CR,R10 ;FORCE READING OF NEW LINE	
	389	RSB	

0046 391 .SBTTL MEXIT MACRO EXIT ROUTINE

0046 392

0046 393 :++

0046 394 : FUNCTIONAL DESCRIPTION:

0046 395 : THIS ROUTINE POPS THE INPUT CONTEXT ONE LEVEL TO EFFECT AN

0046 396 : EXIT FROM A MACRO OR REPEAT-TYPE MACRO

0046 397 :--

0046 400

0046 401 MEXIT:: :DIRECTIVE = KMEXIT

0046 402

0046 403 .SBTTL MAC\$POP_INPUT POP INPUT CONTEXT UP A LEVEL

0046 404

0046 405 :++

0046 406 : FUNCTIONAL DESCRIPTION:

0046 407 : THIS ROUTINE POPS THE INPUT CONTEXT A LEVEL. ALL PAGES

0046 408 : ALLOCATED TO THE CURRENT INPUT BLOCK ARE DEALLOCATED.

0046 409 :--

0046 410

0046 411 :--

0046 412

0046 413 MAC\$POP_INPUT::

56 0000'CF 56 DD 0046 414 PUSHL R6 :SAVE R6

1B 6B 10 E1 0048 415 MOVL W^MAC\$GL_INPUTP,R6 :GET POINTER TO CURRENT INPUT BLOCK

50 14 A6 DD 004D 416 BBC #FLGSV_MACTXT,(R11),10\$:BRANCH IF NOT READING MACRO TEXT

15 18 0051 0051 417 MOVL INPSL_RPTCNT(R6),R0 :YES--GET REPEAT COUNT (OR MACRO FLAG)

50 D6 0057 0057 418 BGEQ 10\$:IF GEQ NO NEED TO GO ANY FARTHER

11 13 0059 0059 419 INCL R0 :SEE IF IT WAS REPEAT THAT WENT TO 0

0046 420 BEQL 10\$:IF EQL YES

56 14 A6 80000000 8F CB 005B 421 :NO--IT WAS MACRO REDEFINING ITSELF

FF99' 30 0064 422 BICL3 #^X80000000,INPSL_RPTCNT(R6),R6 :YES--GET ADDRESS OF MNB

56 0000'CF 0000'CF 0067 0067 423 BSBW MAC\$DEL_MAC_DEF :AND DELETE THE MNB AND ASSOCIATES

50 66 006C 006C 424 MOVL W^MAC\$GL_INPUTP,R6 :RE-GET THE INPUT BLOCK ADDRESS

0000'CF 50 006F 006F 425 10\$: MOVL INPSL_LINK(R6),R0 :POP INPUT CONTEXT

00000000'8F 50 01 0074 426 MOVL R0,W^MAC\$GL_INPUTP :READING FROM SOURCE FILE?

04 12 007B 007B 427 CMPL R0,#MAC\$GL_PRMINBL

00 6B 10 E5 007D 428 BNEQ 20\$:IF NEQ NO

0000'CF 10 A6 DD 0081 429 BBCC #FLGSV_MACTXT,(R11),20\$:YES--CLEAR MACTXT FLAG

0000'CF 0C A6 DD 0087 430 20\$: MOVL INPSL_IFVAL(R6),W^MAC\$GL :IF VALUE :POP IF VALUE

50 56 DD 008D 431 MOVL INPSL_IFLVL(R6),W^MAC\$GL :IF LEVEL :POP IF LEVEL

56 18 A6 DD 0090 432 MOVL R6,R0 :COPY INPUT BLOCK ADDRESS

FF69' 30 0094 433 MOVL INPSL_PAGP(R6),R6 :LINK TO ANY OTHER PAGES

06 11 0097 434 BSBW MAC\$DEA_1_PAGE :Deallocate block (always 1 page)

0099 435 BRB 40\$:GO DEALLOCATE INPUT BLOCK AND REST

0099 436 :OF INPUT CONTEXT PAGES

56 66 DD 0099 437 30\$: : Link to possible next page

FF61' 30 009C 438 MOVL MXBSL_LINK(R6),R6 :Deallocate memory block

009F 439 BSBW MAC\$DEAL_BLOCK

50 56 DD 009F 440 40\$: MOVL R6,R0 :POINT R0 FOR NEXT DEALLOCATION

F5 12 00A2 441 BNEQ 30\$:IF NEQ GO DO IT

5A 0D 9A 00A4 442 MOVZBL #CR,R10 :FORCE NEW LINE

56 8ED0 00A7 443 POPL R6 :RESTORE R6

05 00AA 444 RSB

0099 437 30\$: : Link to possible next page

56 66 DD 0099 438 MOVL MXBSL_LINK(R6),R6 :Deallocate memory block

FF61' 30 009C 439 BSBW MAC\$DEAL_BLOCK

009F 439 BSBW MAC\$DEAL_BLOCK

50 56 DD 009F 440 40\$: MOVL R6,R0 :POINT R0 FOR NEXT DEALLOCATION

F5 12 00A2 441 BNEQ 30\$:IF NEQ GO DO IT

5A 0D 9A 00A4 442 MOVZBL #CR,R10 :FORCE NEW LINE

56 8ED0 00A7 443 POPL R6 :RESTORE R6

05 00AA 445 RSB

00AB	447	.SBTTL STATEMENTS	END-OF-LINE CLEANUP
00AB	448		
0CAB	449	:++	
00AB	450	:--	AFTER EACH STATEMENT SOME FLAGS NEED TO BE RESET.
00AB	451		
00AB	452		
00AB	453	:MTXT1::	
00AB	454	:MTXT2::	
00AB	455	MTXT3::	
00AB	456	MTXT4::	
00AB	457	MTEXT:	
00AB	458		
00AB	459	\$INTOUT_X INT\$ CHKL	:BEFORE FOR THIS LINE
00000046 8F	C8	00B1 460 BISL2 #FLGSM_BOL!FLGSM_EVALEXPR!FLGSM_COMPEXPR,-	:ALIGN LISTING AND SOURCE
6B		00B7 461 (R11)	;RESET BEGINNING OF LINE
0000'CF	D4	00B8 462 CLRL W^MAC\$GL_ABSFLAG	:AND EVALUATE FLAGS
0000'CF	D4	00BC 463 CLRL W^MAC\$GL_PRMSEG	:RESET ABSOLUTE FLAG
0000'CF	D4	00C0 464 CLRL W^MAC\$GL_MOPPTR	:NO EXPRESSION PSECT YET
6B 01802000 8F	CA	00C4 465 BICL2 #FLGSM_OPRND!FLGSM_IFSTAT!FLGSM_NOREF,(R11)	:CLEAR POINTER TO OPERAND MODE BYTES
0000'CF 02	90	00CB 466	:NOT IN OPERAND FIELD
05		00CB 467	:AND NOT IN AN IF
0000'CF 02	90	00CB 468 MOVB #RDXSV_DECIMAL,W^MAC\$GB_RDXNDX	:AND ALLOW PRMSYM TO REF SYMBOLS
05		00D0 469 RSB	:RESET TO DECIMAL RADIX
		00D1 470	
		00D1 471 .END	

SS_TMP1	=	000000001
SS_TMP2	=	0000000A0
SCOUNT	=	000000038
ARGSK_SIZE	=	00000003E8
AUDSK_SIZE	=	000000010
BIT...	=	000000005
BLNK	=	000000020
CHRSM_COMMACR	=	000000020
CHRSM_ILLCAR	=	000000040
CHRSM_NUMBER	=	000000010
CHRSM_SPA_MSK	=	000000001
CHRSM_SYM_CH1	=	000000008
CHRSM_SYM_CHR	=	000000004
CHRSM_SYM_DLM	=	000000002
CHRSP_COMMACR	=	000000005
CHRSP_CVTLWC	=	000000061
CHRSP_ILL_CHR	=	000000006
CHRSP_NOCVT	=	00000007F
CHRSP_NUM_BER	=	000000004
CHRSP_SPA_MSK	=	000000000
CHRSP_SYM_CH1	=	000000003
CHRSP_SYM_CHR	=	000000002
CHRSP_SYM_DLM	=	000000001
CNT	=	000000002
CR	=	000000000
CRFSK_REF	=	*****
ERR	=	000000000
FF	=	00000000C
FLGSM_ALLCHR	=	000000001
FLGSM_BOL	=	000000002
FLGSM_CHKLPND	=	001000000
FLGSM_COMPEXPR	=	000000004
FLGSM_CONT	=	000000008
FLGSM_CRF	=	400000000
FLGSM_CRSEEN	=	000000001
FLGSM_DATRPT	=	000000010
FLGSM_DBGOUT	=	000040000
FLGSM_DLIMSTR	=	000080000
FLGSM_ENDMCH	=	000000020
FLGSM_EVALEXPR	=	000000040
FLGSM_EXPOPT	=	000000080
FLGSM_EXTERR	=	000100000
FLGSM_EXTWRN	=	000200000
FLGSM_FIRSTLNLN	=	000002000
FLGSM_IFSTAT	=	008000000
FLGSM_IIF	=	004000000
FLGSM_INSERT	=	000001000
FLGSM_IRPC	=	200000000
FLGSM_LEXOP	=	000000002
FLGSM_LSTXST	=	000000200
FLGSM_MAC2COL	=	000000800
FLGSM_MACL	=	0C0000800
FLGSM_MACLTB	=	080000000
FLGSM_MACTXT	=	000100000
FLGSM_MEBLST	=	000010000
FLGSM_MOREARG	=	000020000
FLGSM_MOREINP	=	000000008

x 04

FLGSM_NEWPND	= 000000400
FLGSM_NOREF	= 010000000
FLGSM_NTYPEDPC	= 000000020
FLGSM_NULCHR	= 000400000
FLGSM_OBJXST	= 002000000
FLGSM_OPNDCHK	= 000000100
FLGSM_OPRND	= 000020000
FLGSM_OPTVFLIDX	= 000010000
FLGSM_ORDLST	= 000200000
FLGSM_P2	= 000040000
FLGSM_RPTIRP	= 100000000
FLGSM_SEQFIL	= 020000000
FLGSM_SKAN	= 000080000
FLGSM_SPECOP	= 00000004
FLGSM_SPLALL	= 040000000
FLGSM_STOIMF	= 000400000
FLGSM_SYM2COL	= 000000400
FLGSM_TOCFLG	= 000800000
FLGSM_UPAFLG	= 00000010
FLGSM_UPDFIL	= 000000080
FLGSM_UPMARG	= 000000040
FLGSM_XCRF	= 800000000
FLGSV_ALLCHR	= 000000000
FLGSV_BOL	= 000000001
FLGSV_CHKLPND	= 000000014
FLGSV_COMPEXPR	= 000000002
FLGSV_CONT	= 000000003
FLGSV_CRF	= C0000001E
FLGSV_CRSEEN	= 000000020
FLGSV_DATRPT	= 000000004
FLGSV_DBGOUT	= 00000002E
FLGSV_DLIMSTR	= 00000002F
FLGSV_ENDMCH	= 000000005
FLGSV_EVALEXPR	= 000000006
FLGSV_EXPOPT	= 000000007
FLGSV_EXTERR	= 000000030
FLGSV_EXTRWN	= 000000031
FLGSV_FIRSTLN	= 000000029
FLGSV_IFSTAT	= 000000017
FLGSV_IIF	= 000000016
FLGSV_INSERT	= 000000008
FLGSV_IRPC	= 00000001D
FLGSV_LEXOP	= 000000021
FLGSV_LSTXST	= 000000009
FLGSV_MAC2COL	= 000000028
FLGSV_MACL	= 000000008
FLGSV_MACLTB	= 000000018
FLGSV_MACTXT	= 000000010
FLGSV_MEBLST	= 00000000C
FLGSV_MOREARG	= 00000002D
FLGSV_MOREINP	= 000000023
FLGSV_NEWPND	= 00000000A
FLGSV_NOREF	= 000000018
FLGSV_NTYPEDPC	= 000000025
FLGSV_NULCHR	= 000000032
FLGSV_OBJXST	= 000000015
FLGSV_OPNDCHK	= 000000028

FLGSV_OPRND
 FLGSV_OPTVFLIDX
 FLGSV_ORDLST
 FLGSV_P2
 FLGSV_RPTIRP
 FLGSV_SEQFIL
 FLGSV_SKAN
 FLGSV_SPECOP
 FLGSV_SPLALL
 FLGSV_STOIMF
 FLGSV_SYM2COL
 FLGSV_TO CFLG
 FLGSV_UPAFLG
 FLGSV_UPDFIL
 FLGSV_UPMARG
 FLGSV_XCRF
 HASHSZ
 HYPHEN
 INPSB_ARGCT
 INPSK_BLKSIZ
 INPSK_BUFSIZ
 INPSK_IRPSIZ
 INPSL_ARGS
 INPSL_GETL
 INPSL_IFLVL
 INPSL_IFVAL
 INPSL_LINK
 INPSL_NXTL
 INPSL_PAGP
 INPSL_RPTCNT
 INTSK_BUFSIZ
 INTSK_BUFWRN
 INTS_ADD
 INTS_AND
 INTS_ASH
 INTS ASN
 INTS_AUGPC
 INTS_BDST
 INTS_CHKL
 INTS_DIV
 INTS_END
 INTS_EPT
 INTS_ERR
 INTS_ETX
 INTS_FNEWL
 INTS_JLG
 INTS_INFO
 INTS_LGLAB
 INTS_MACL
 INTS_MUL
 INTS_NEG
 INTS_NEWL
 INTS_NEWP
 INTS_NOT
 INTS_OP
 INTS_OR
 INTS_PRIL

= 0000000D
 = 0000002C
 = 00000011
 = 0000000E
 = 0000001C
 = 00000019
 = 0000000F
 = 00000022
 = 0000001A
 = 00000012
 = 0000002A
 = 00000013
 = 00000024
 = 00000027
 = 00000026
 = 0000001F
 = 0000007F
 = 0000002D
 = 0000001C
 = 00000021
 = 000003E8
 = 0000003C
 = 0000001D
 00000008
 0000000C
 00000010
 00000000
 00000004
 00000018
 00000014
 000013F4
 = 00001390
 = 00000001
 = 00000002
 = 00000003
 = 0000000C
 = 0000000D
 = 0000000E
 = 0000000F
 = 00000004
 = 00000010
 = 00000011
 = 00000012
 = 00000013
 = 00000014
 = 00000000
 = 0000003A
 = 00000015
 = 00000016
 = 00000005
 = 00000006
 = 00000017
 = 00000018
 = 00000007
 = 00000019
 = 00000008
 = 0000001A

INTS_PRT
 INTS_PSECT
 INTS_REDEF
 INTS_REF
 INTS_REST
 INTS_SAME
 INTS_SAVE
 INTS_SBTTL
 INTS_SETFLAG
 INTS_SETLONG
 INTS_SPIC
 INTS_SPID
 INTS_STIB
 INTS_STIL
 INTS_STIW
 INTS_STKEPT
 INTS_STKG
 INTS_STKL
 INTS_STKPC
 INTS_STKS
 INTS_STCB
 INTS_STOL
 INTS_STOW
 INTS_STRB
 INTS_STRL
 INTS_STRSB
 INTS_STRSW
 INTS_STRW
 INTS_STSB
 INTS_STSW
 INTS_SUB
 INTS_SUME
 INTS_WRN
 INTS_XOR
 LSTSG_MACROCALL
 LSTSK_BUFSIZ
 LSTSK_L_P PAGE
 LSTSK_TITCE_SIZ
 MABSB_ARGNO
 MABSB_NAME
 MABSK_BLKSIZ
 MABSL_DVPTR
 MABSL_LINK
 MABSW_DVLEN
 MAC\$AB_LINEBF
 MAC\$AB_SBT_FILE
 MAC\$AL_VALSTACK
 MAC\$CREF_MACPO
 MAC\$DEAL_BLOCK
 MAC\$DEA_T PAGE
 MAC\$DEL_MAC_DEF
 MAC\$GB_RDXNDX
 MAC\$GETCHR
 MAC\$GETLIN
 MAC\$GET_ARGS
 MAC\$GL_ABSFLAG
 MAC\$GL_BLKPTR

= 0000001B
 = 0000001C
 = 0000001D
 = 0000001E
 = 0000001F
 = 00000009
 = 00000020
 = 00000021
 = 00000022
 = 00000023
 = 00000024
 = 00000025
 = 00000026
 = 00000028
 = 00000027
 = 00000029
 = 0000002A
 = 0000002B
 = 0000002C
 = 0000002D
 = 00000034
 = 0000002E
 = 00000035
 = 0000002F
 = 00000031
 = 00000032
 = 00000033
 = 00000030
 = 00000036
 = 00000037
 = 0000000A
 = 00000039
 = 00000038
 = 0000000B
 ***** X 04
 = 00000086
 = 0000003C
 = 00000028
 = 00000005
 = 00000004
 = 0000000C
 = 00000008
 = 00000000
 = 00000006
 ***** X 03
 ***** X 03
 ***** X 04
 00000000 RG 03
 0000008B RG 03
 ***** X 04
 ***** X 04
 ***** X 04
 ***** X 04

MACSGL_CURINFDB	*****	X	03	PSC\$K_BLKSIZ	00000013
MACSGL_ERRPTX	*****	X	03	PSC\$K_NOOPTNS	= 0000000A
MACSGL_IF_LEVEL	*****	X	03	PSC\$K_CURLOC	= 0000000F
MACSGL_IF_VALUE	*****	X	04	PSC\$K_LINK	= 00000005
MACSGL_INPQUE	*****	X	03	PSC\$K_MAXLGTH	= FFFFFFF7
MACSGL_INPUTP	*****	X	03	PSC\$M_ABS	= 00004000
MACSGL_KEYMAC	*****	X	04	PSC\$M_ALIGNFLG	= 00003FF
MACSGL_LINBAS	*****	X	03	PSC\$M_ALLOPTNS	= 00004000
MACSGL_LINELN	*****	X	03	PSC\$M_BYTE	= FFFFFFFB
MACSGL_LINENUM	*****	X	03	PSC\$M_CON	= 00001C8
MACSGL_LINEPT	*****	X	03	PSC\$M_DEFAULT	= 000000C0
MACSGL_LIST_IT	*****	X	04	PSC\$M_EXE	= 00000010
MACSGL_MACPTR	*****	X	04	PSC\$M_GBL	= FFFFFFFF
MACSGL_MOPPTR	*****	X	04	PSC\$M_LCL	= 00000002
MACSGL_PRMINBL	*****	X	04	PSC\$M_LIB	= 00004800
MACSGL_PRMSEG	*****	X	04	PSC\$M_LONG	= FFFFFFFB
MACSGL_RECVDBUF	*****	X	04	PSC\$M_NOEXE	= FFFFFFFE
MACSGL_SRCPAG	*****	X	04	PSC\$M_NOPIC	= FFFFFFF7F
MACSGL_SRC_LCNT	*****	X	03	PSC\$M_NORD	= FFFFFFFDF
MACSGT_SCB	*****	X	03	PSC\$M_NOSHR	= FFFFFFFE
MACSGW_LST_INST	*****	X	03	PSC\$M_NOVEC	= FFFFFEFF
MACSGW_LST_LINE	*****	X	03	PSC\$M_NOWRT	= 00000004
MACSINPUT_RAB	*****	X	03	PSC\$M_OVR	= 0006400
MACSINTERR_2_LW	*****	X	03	PSC\$M_PAGE	= 00000001
MACSINTOUT_2_LW	*****	X	03	PSC\$M_PIC	= 00000080
MACSINTOUT_WD	*****	X	03	PSC\$M_QUAD	= 0004C00
MACSINTOUT_X	*****	X	03	PSC\$M_RD	= 00000008
MACSNXTINPFIL	000001F6	R	03	PSC\$M_REL	= 00000020
MACSOPEN_INPUT	00000046	RG	04	PSC\$M_SHR	= FFFFFFD
MACSPOP_INPUT	00000046	RG	04	PSC\$M_USR	= 0000200
MACS MISSINGEND	007D8828			PSC\$M_VEC	= 0004400
MAC SUBSYS	0000007D			PSC\$M_WORD	= 0000180
MEXIT	00000046	RG	04	PSC\$M_WRT	= 00000004
MNBSB_ARGCT	00000017			PSC\$S_ALIGNMENT	= 0000000E
MNBSB_NAME	00000004			PSC\$V_ALIGNMENT	= 0000000A
MNBSK_BLKSIZ	0000001C			PSC\$V_EXE	= 00000006
MNBSL_ARGP	00000018			PSC\$V_GBL	= 00000004
MNBSL_CRSYMF	00000013			PSC\$V_LIB	= 00000001
MNBSL_LINK	00000000			PSC\$V_OVR	= 00000002
MNBSL_PAGC	0000000F			PSC\$V_PIC	= 00000000
MNBSL_PAGP	0000000B			PSC\$V_RD	= 00000007
MNBSL_TXTP	00000005			PSC\$V_REL	= 00000003
MNBSU_FLAG	00000009			PSC\$V_SHR	= 00000005
MTEXT	000000AB	R	04	PSC\$V_VEC	= 00000009
MTXT3	000000AB	RG	04	PSC\$V_WRT	= 00000008
MTXT4	000000AB	RG	04	PSC\$W_FLAG	= 00000009
MXBSK_BLKSIZ	00000008			PSC\$W_OPTIONS	= 00000000
MXBSL_LINK	00000000			RAB\$W_RSZ	= 00000022
MXBSL_PAGES	00000004			RDX\$V_BINARY	= 00000000
OBJSK_BUFSIZ	= 00000200			RDX\$V_DECIMAL	= 00000002
OPFSM_LASTOPR	= 00002000			RDX\$V_DOUBLE	= 00000005
OPFSM_OPTEXP	= 00001000			RDX\$V_FLOAT	= 00000004
OPFSV_LASTOPR	= 0000000D			RDX\$V_GFLOAT	= 00000006
OPFSV_OPTEXP	= 0000000C			RDX\$V_HEX	= 00000003
PSC\$B_NAME	00000004			RDX\$V_HFLOAT	= 00000007
PSC\$B_SEG	0000000C			RDX\$V_OCTAL	= 00000001
PSC\$B_UNUSED	0000000B				

MAC\$INPUT Symbol table

GET NEXT CHARACTER

E 1

16-SEP-1984 02:20:18 VAX/VMS Macro V04-00
5-SEP-1984 01:48:32 [MACRO.SRC]INPUT.MAR;1

Page 16
(8)

REGS_PC
RMSS_EOF
SEMI
SIZ...
STAT4
STBSK_PG_MISS
STSSK_INFO
STSSM_SEVERITY
STSSS_FAC_NO
STSSV_FAC_NO
SUMSCLOSE
SUMSLINE
SUMS_EDITSCLSH
SUMS_NORMAL
SUM_B_FLAGS
SUM_ERROR
SUM_K_BLN
SUM_L_ISDATA
SUM_L_STS
SUM_M_AUDIT
SUM_M_AUDITNEW
SUM_M_DELETE
SUM_M_SRCUPD
SUM_M_SUBCLSH
SUM_Q_AUDD\$
SUM_Q_FILESP
SUM_V_AUDIT
SUM_V_AUDITNEW
SUM_V_DELETE
SUM_V_SRCUPD
SUM_V_SUBCLSH
SUM_W_INSERT_NO
SUM_W_LINE_NO
SYMSB_NAME
SYMSB_SEG
SYMSB_TOKEN
SYMSK_BLKSIZ
SYMSK_MAXLEN
SYMSK_TWOCOL
SYMSL_LINK
SYMSL_VAL
SYMSM_ABS
SYMSM ASN
SYMSM_CRFO
SYMSM_DEBUG
SYMSM_DEF
SYMSM_DELMAC
SYMSM_EPT
SYMSM_EXTRN
SYMSM_GLOBL
SYMSM_LOCAL
SYMSM_ODBG
SYMSM_REF
SYMSM_RELPECT
SYMSM_SUPR
SYMSM_WEAK
SYMSM_XCRF

```
! Psect synopsis !
```

PSECT name

```
-----  
. ABS :  
. BLANK :  
$ABSS  
MAC$RO_CODE_P15  
MAC$RO_CODE_P1
```

Allocation

	Allocation	PSECT No.	Attributes
000000000	(0.) 00 (0.)	NOPIC USR	CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
000000000	(0.) 01 (1.)	NOPIC USR	CON REL LCL NOSHR EXE RD WRT NOVEC BYTE
00000003C	(60.) 02 (2.)	NOPIC USR	CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
000000246	(582.) 03 (3.)	NOPIC USR	CON REL GBL NOSHR EXE RD NOWRT NOVEC LONG
0000000D1	(209.) 04 (4.)	NOPIC USR	CON REL GBL NOSHR EXE RD NOWRT NOVEC LONG

```
! Performance indicators !
```

Phase

Phase	Page faults	CPU Time	Elapsed Time
Initialization	29	00:00:00.02	00:00:01.67
Command processing	107	00:00:00.48	00:00:04.12
Pass 1	263	00:00:04.89	00:00:24.79
Symbol table sort	0	00:00:00.65	00:00:02.10
Pass 2	102	00:00:01.14	00:00:04.59
Symbol table output	50	00:00:00.23	00:00:00.43
Psect synopsis output	2	00:00:00.02	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	555	00:00:07.43	00:00:37.72

The working set limit was 1500 pages.

42445 bytes (83 pages) of virtual memory were used to buffer the intermediate code.

There were 40 pages of symbol table space allocated to hold 652 non-local and 38 local symbols.

471 source lines were read in Pass 1, producing 22 object records in Pass 2.

25 pages of virtual memory were used to define 23 macros.

```
! Macro library statistics !
```

Macro library name

```
$255$DUA28:[SHRLIB]SUM.MLB;1  
-$255$DUA28:[MACRO.OBJ]MACRO.MLB;1  
-$255$DUA28:[SYSLIB]STARLET.MLB;2  
TOTALS (all libraries)
```

Macros defined

3
12
9
24

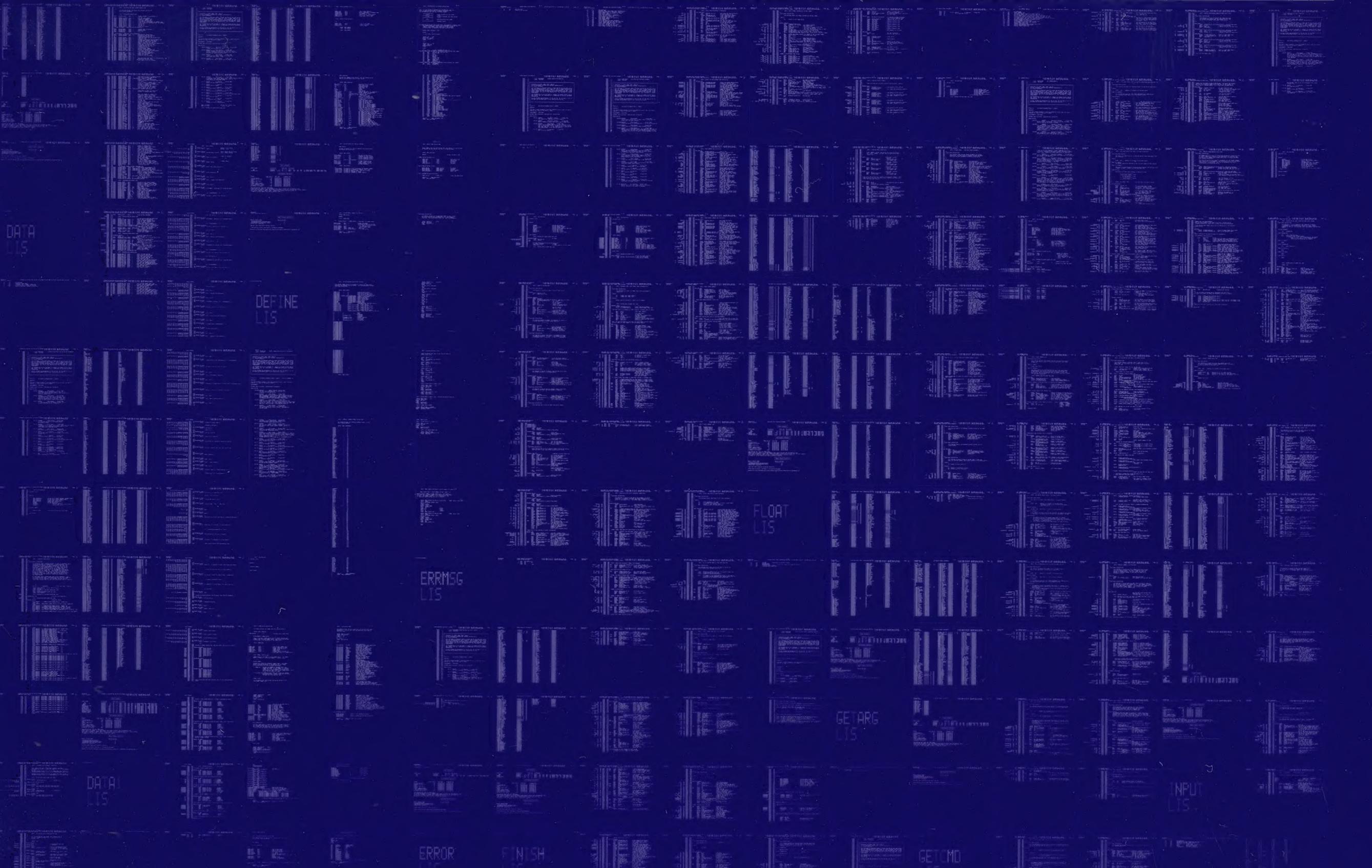
827 GETS were required to define 24 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:INPUT/OBJ=OBJ\$:INPUT MSRC\$:INPUT/UPDATE=(ENH\$:INPUT)+LIB\$:MACRO/LIB+SHRLIB\$:SUM/LIB

0225 AH-BT13A-SE
VAX/VMS V4.0

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0226 AH-BT13A-SE
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION
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